

Claims

1. A thermolabile liposome with a controlled release
5 temperature for the liposome content,
characterized in that
it is essentially formed from at least one
phosphatidylcholine with a main transition
temperature in the range from 0 to 80°C and more
10 than 15 to 70% by weight of phosphatidyl-
oligoglycerol.
2. The liposome as claimed in claim 1,
characterized in that
15 it contains at least one phosphatidylcholine,
selected from the group consisting of 1-palmitoyl-
2-olioylglycero-3-phosphocholine, 1-stearoyl-
2-olioyl-3-phosphocholine, 1-palmitoyl-2-lauroyl-
glycero-3-phosphocholine, 1-behenoyl-2-olioyl-
20 glycero-3-phosphocholine, 1-stearoyl-2-lauroyl-
glycero-3-phosphocholine, 1,3-dimyristoylglycero-
2-phosphocholine, 1,2-dimyristoylglycero-
3-phosphocholine, 1-palmitoyl-2-myristoylglycero-
3-phosphocholine, 1-stearoyl-2-myristoylglycero-
25 3-phosphocholine, 1-myristoyl-2-palmitoylglycero-
3-phosphocholine, 1,3-palmitoylglycero-2-phospho-
choline, 1,2-dipalmitoylglycero-3-phosphocholine,
1-myristoyl-2-stearoylglycero-3-phosphocholine,
1-stearoyl-3-myristoylglycero-2-phosphocholine,
30 1-stearoyl-2-palmitoylglycero-3-phosphocholine,
1-palmitoyl-2-stearoylglycero-3-phosphocholine,
1,3-distearoylglycero-2-phosphocholine, 1,2-di-
stearoylglycero-3-phosphocholine, 1,2-di-
arachinoylglycero-3-phosphocholine, 1,2-di-
35 behenoylglycero-3-phosphocholine and 1,2-di-
lignoceroylglycero-3-phosphocholine.
3. The liposome as claimed in claim 1 or 2,

characterized in that
it contains dipalmitoylphosphoglycerol as
the phosphatidyloligoglycerol.

5 4. The liposome as claimed in one of the preceding
claims,

characterized in that

it essentially consists of 20 to 75% of
dipalmitoyllecithin (DPPC), 10 to 25% of
10 distearoyllecithin (DSPC) and more than 15 to 50%
of dipalmitoylphosphoglycerol (DPPG2).

5. The liposome as claimed in one of the preceding
claims,

15 characterized in that

it additionally contains up to 15% of at least one
alkylphosphocholine.

6. The liposome as claimed in claim 5,

20 characterized in that

it contains 10 to 15% of at least one of the
compounds hexadecylphosphocholine, oleoyl-
phosphocholine or ether lysolecithin.

25 7. The liposome as claimed in one of the preceding
claims,

characterized in that

it contains no cholesterol.

30 8. The liposome as claimed in one of the preceding
claims,

characterized in that

it contains an active compound or/and a labelling
substance.